

11/11

1949 leukotomy

[illegible]

leukotomy

Leukotomy □□□□□□□□□□

2 leukotomy leukotomy BRAIN Initiative AlphaGo

3 personality intelligence Walter Freeman personality intelligence [5]

personality intelligence personality intelligence

leukotomy

☐ Turing Test ☐ Nature ☐ AlphaGo Zero ☐ superhuman
☐ superhuman ☐ generic ☐ human
☐

Leukotomy 自然 AlphaGo Zero 超human 同行评议
同行评议 [6]

leukotomy BRAIN Initiative

Technological Singularity AlphaGo

Nature AlphaGo Zero AlphaGo Zero superhuman performance superhuman generic human superhuman

AlphaGo Zero AlphaGo Master superhuman generic superhuman game

AlphaGo Zero superhuman
AlphaGo Zero

AlphaGo Zero Nature superhuman

[illegible]

game superhuman

[illegible]

Technological Singularity

Deepmind [7]

AlphaGo Master 0000000000 AlphaGo Master00000AlphaGo Master 000000000
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000000000000000

AlphaGo Zero 10000 AlphaGo Master 10000 AlphaGo Zero 100000000[8] 100000000
AlphaGo Master 10000000000 16 100000000 AlphaGo Zero 10000000000 18 100000000
AlphaGo Zero 100 14 16 100 45 1000000000000000000

1 Nature Magazine AlphaGo Deepmind AlphaGo Zero
AlphaGo Master

Neurosciences and human specific intelligence
Neurosciences and human specific intelligence

Neurosciences and human specific intelligence
Neurosciences and human specific intelligence

Alan Turing, Geoffrey Hinton, Demis Hassabis
AlphaGo

Demis Hassabis, deep-learning, reinforcement learning [16]
Nature, AlphaGo Zero, generic, superhuman
Geoffrey

Turing Machine, Geoffrey Hinton, Turing Machine, Alan Turing

Dialogue Concerning the Two Chief World Systems [17]

The Sceptical of Chemist

On the Origin of Species

human specific intelligence, big data, BRAIN Initiative, big data, human specific intelligence

Big data, AlphaGo

Gödel's theorems

"a precise set of laws governing the rational part of the mind"

Turing Test

[2]

[3]

[4] SAE level 4

[5] BRAIN Initiative big data

BRAIN Initiative mental diseases anxiety disorders like depression and post-traumatic stress disorder obesity and eating disorders bipolar disorder and mental retardation disorders diseases

BRAIN Initiative personalities mental diseases Big Data

[6] Leucotomy in England and Wales, 1942-1954 9284 41 28 25 2 4

personality intelligence 25 personality intelligence clinical condition 41 28 clinical condition personality intelligence

leucotomy

Renato M.E. Sabbatini Even lobotomy's preponents admitted that only one third of the operated patients would improve, while one-third remained the same, and one-third got worst Leucotomy in England and Wales, 1942-1954 <http://www.cerebromente.org.br/n02/historia/lobotomy.htm>

one third would improve one-third remained the same clinical condition personality intelligence

personality intelligence leucotomy BRAIN Initiative

[7]

peer review peer review

AlphaGo Zero superhuman generic human AlphaGo Zero

[8] Cracking Go Deep Blue AlphaGo AlphaGo

[9] <http://www.alphago-games.com/> AlphaGo Zero AlphaGo Zero <https://www.101weiqi.com/chessbook/player/38348/>

[10] AlphaGo Master AlphaGo Master

[11] <http://www.alphago-games.com/> Full Strength of Alphago Zero, i.e. Final Form 40 Blocks 20 Blocks Not Full Strength of Alphago Zero AlphaGo Zero

[12]

AlphaGo Google AlphaGo AlphaGo Zero AlphaGo Human level artificial intelligence AlphaGo

[13] 2012 2015

“Go gaming is strictly defined within a very small space. Industrial automations are typically designed in well controlled environments, but not strictly defined. Car driving is regulated, but the environment is not well controlled”

[22] 1819 Ferdinand Schweikart

Ferdinand Schweikart

□ □

[illegible][illegible]

[25] 